

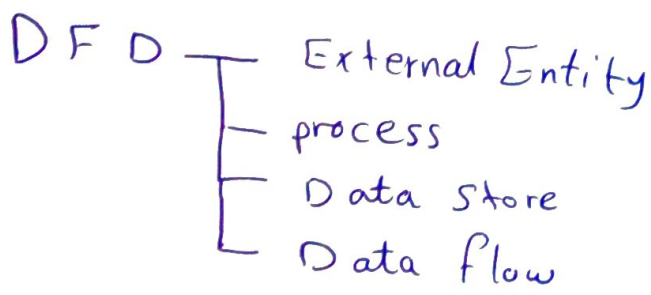
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الشرف

د. م. م. م.

محاضرة 4

- * What is External Entity
it receives or send data to system
- * DFD - Data Flow Diagram
a System can be seen as a flow of data
- * a system is a group of entities (sub systems) that are inter-related
- * There are object oriented modelling and structural modelling.
- * in real life there are objects, making classes of them is a generalization.
- * Differentiate between method and data.
- * DFD rel. on Functional decomposition



physical modelling is modelling what happens.

Logical modelling : why it happens.

- * There is no system without external entities.
or without data store, data flow, process.
- * a process is an action in the business, so its a verb

* in DFD :

- no External Entity can relate with other
- no data store gives a data store
- a process can give to another process
- a process have inputs and outputs
- data flow is transaction of data from one part to another
- an internal entity is known by means of its actions
- external entities can only send and receive data
- * there are static and Dynamic models
- DFD is a static model since it does not include time.
- any Dynamic Model include time
- DataFlow Diagram is decomposed to Levels, each process is assigned a number
- only processes are leveled to parent and child.
- Object oriented Modelling is used with large interactions because DFD shows too many details that can get very complex